

DVS-8501D User Guide



V1.0.0

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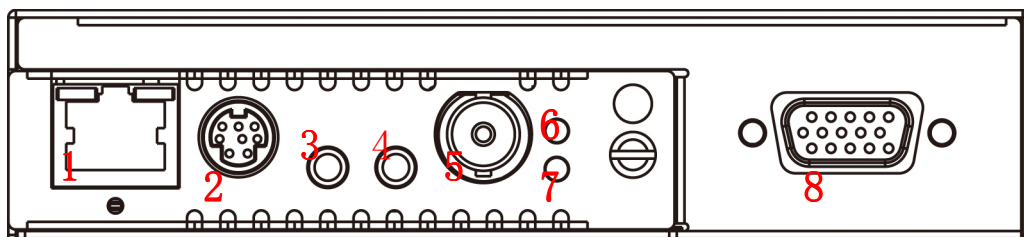
2.7. Account25

1. Hardware and Setting

1.1. Package Contents

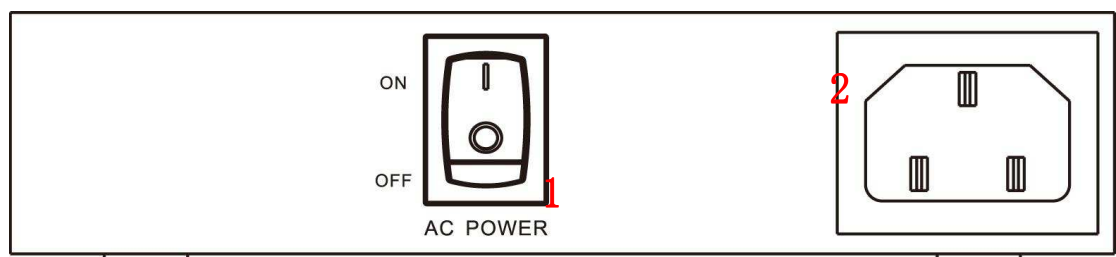
1. 8501D video encoder
2. Power line.
3. CD (User Manual)

1.2. Overview: Front panel



1. RJ-45 Ethernet port.
2. PTZ DI/DO. User can control camera by this PTZ port or connect digital alarm.
3. Audio In
4. Audio Out
5. Video Out
6. PWR. When power on, there is green LED.
7. Link. When connect to a network device, there is green LED.

1.3. Overview: Back Panel



1. Power Switch.
2. Power Joint, 100~240VAC , 47~63Hz

2. Web Interface Setting

2.1. Connect to Decoder by Internet browser

- Execute Internet browser (FireFox is not supported). If there is a DHCP server in local Lan, please key-in the IP address from DHCP server on address bar. If not, please use “192.168.0.200”to access.
- The default username and password is “admin”
Note: Default username and password can be changed by “Account” → “Admin”

☐ User Name:

☐ Password:

- After that, main setup page will be shown (If there is ActiveX setup dialog, please choose “Install”)



2.1.1. System

System Information

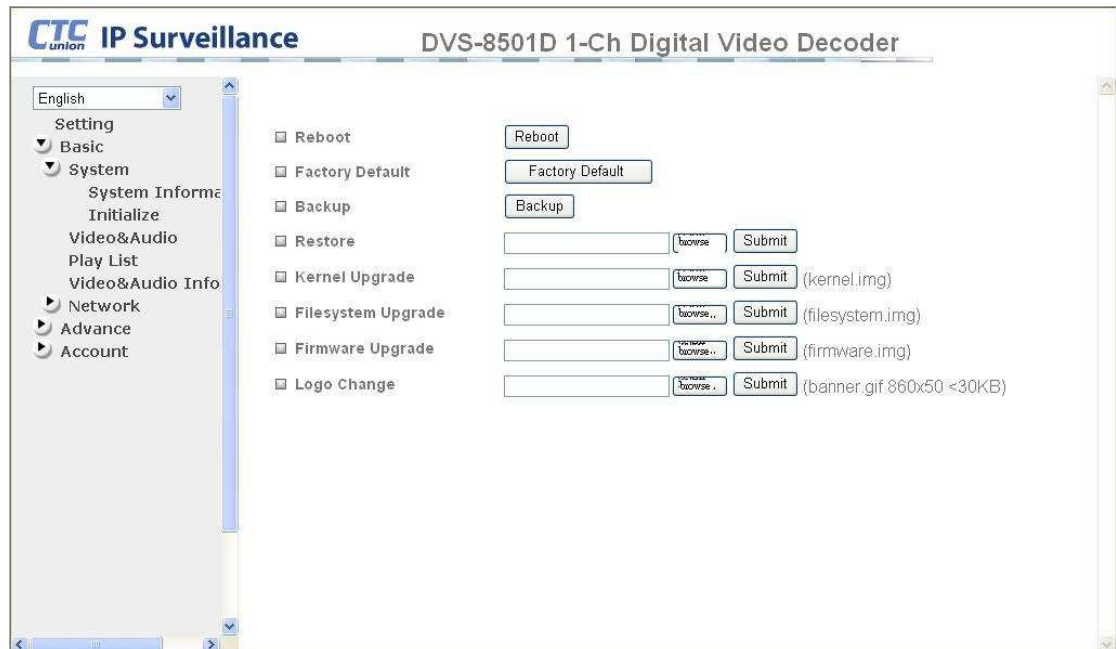
This page including information of “Product name”, “Firmware Version”, and “Hardware version”.

The screenshot displays the web interface of the DVS-8501D 1-Ch Digital Video Decoder. The interface has a header with the CTC union logo and the title "IP Surveillance". Below the header, there is a navigation menu on the left with options: English (selected), Setting, Basic (selected), System, Video&Audio, Play List, Video&Audio Info, Network, Advance, and Account. The main content area shows the "System Information" page with three fields: Product Name (DVS8501D), Firmware Version (Uboot:V1.1.4/Kernel:Linux2.6.23/App:2008-11-23 V1.2089), and Hardware Version (2008-11-23).

Field	Value
Product Name	DVS8501D
Firmware Version	Uboot:V1.1.4/Kernel:Linux2.6.23/App:2008-11-23 V1.2089
Hardware Version	2008-11-23

Initialize

This page including information of “Product name”, “Firmware Version”, and “Hardware version”.



- Reboot : Click this button will reboot the device.
 - Factory default : Click this to get back factory default. After reset, sever will reboot automatically.
 - Backup: Click to save a config file into PC.
 - Restore: Click to restore a config file into encode server. All setting will get back to previous one.
 - Kernel upgrade: Click to upgrade device kernel.
 - File system upgrade: Click to upgrade device kernel.
 - Firmware update: Click to upgrade firmware.
- Logo update: Click to change homepage logo. Please use 850x50 gif formats to replace old one.

2.1.2. Video & Audio

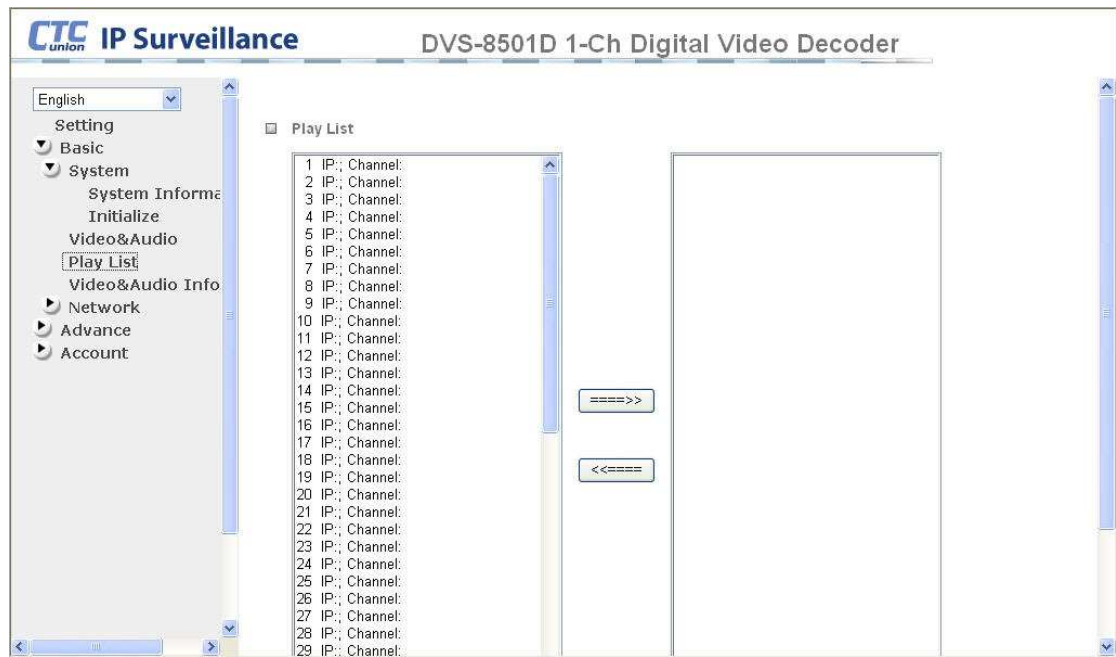
The screenshot displays the configuration window for the DVS-8501D 1-Ch Digital Video Decoder. The interface is titled 'CTC union IP Surveillance' and 'DVS-8501D 1-Ch Digital Video Decoder'. On the left is a sidebar with a tree view containing: English (language), Setting, Basic, System, System Information, Initialize, Video&Audio (selected), Play List, Video&Audio Info, Network, Advance, and Account. The main configuration area includes the following settings:

- Video Out:** A dropdown menu set to 'NTSC'.
- Audio In:** Radio buttons for 'On' (selected) and 'Off'.
- Mode:** Radio buttons for 'Play Single' (selected) and 'Play Multi-Channel'. Below this is a 'Channel Switch Period' field set to '30' with a unit of '(5~120)s'.
- Video Source:** A section containing several fields:
 - Sequence Number:** A dropdown menu set to '1'.
 - IP Address:** An empty text input field.
 - Control Port:** Radio buttons for '6789' (selected) and '6789' (disabled), with a range '(1024~65535)'.
 - User Name:** A text input field containing 'admin'.
 - Password:** A text input field with masked characters '.....'.
 - Channel:** A dropdown menu set to '1' and a 'Test' button.
 - Media Type:** A dropdown menu set to 'Video&Audio'.
 - Media Stream:** A dropdown menu set to 'Main Stream'.

At the bottom of the configuration area are 'Submit' and 'Cancel' buttons.

- **Video Out::** Please select video format according to the camera type.
- **Audio In:** Turn on or off “Audio In” function
- **Mode :**
 - Play Single: Only plays one channel on screen
 - Play Multi-channel: Play multi-channel. Switching cycle could be changed in “Channel Switch period”
- **Video Source**
 - Sequence Number: Video decoder could receive 64 video encoder sources. There are 64 setup profile for using.
 - IP Address: Input video encoder here.
 - Control port: Camera control port.
 - User Name: Input video encoder user name.
 - Password: Input video encoder password.
 - Channel : Select the channel you want to use. There is a test button for testing.
 - Media Type: Select video output type: “Video & Audio” or “Video” only.
 - Media stream: Select which stream you want to receive from encoder.

2. 1. 3. Play List



- List on the left shows all video source information. Including IP address and channel.
- Select an “IP channel” from list of left. Click ==>> to add to play list.
- Select an “IP channel” from list of right. Click <<== to remove from play list.

2. 1. 4. Video & Audio Info



- Shows all information of video source. Including: IP, channel, media type and media stream

2. 1. 5. Network

2. 1. 5. 1. Network Information

- MAC address : Show device MAC address.
- Automatically (DHCP) : Set device to DHCP
- Manual : Manual set IP, subnet and default gateway.
- DNS Server
 - Auto : Get DNS server IP automatically.
 - Manual : Set DNS IP manually.
 - Primary DNS : Input primary DNS server IP address here.
 - Secondary DNS Server : Input secondary DNS server IP address here.
- HTTPS Port : Set to connect by default https port 443 or range 1024~65535
- HTTP Port : Set to connect by default http port 80 or range 1024~65535
- Client Port : Define client device connect to encoder by which port.
- AV Port : Port of video service stream. 6789, or set manually.

2. 1. 5. 2. PPPOE

Set to connect to Internet by PPPoE.

The screenshot shows the web interface of the CTC IP Surveillance DVS-8501D 1-Ch Digital Video Decoder. The left sidebar contains a menu with the following items: English (dropdown), Setting, Basic, System, Video&Audio, Play List, Video&Audio Info, Network (selected), Network Inform, PPPoE (active), DDNS, UPnP, SNMP, HTTPS, IP Notification, Advance, and Account. The main content area is titled 'PPPoE' and features a status toggle set to 'On'. Below this are input fields for 'IP Address', 'User ID', 'Password', and 'Re-type Password'. The 'DNS Server Setting' section has two radio buttons: 'Automatically' (selected) and 'Manual'. Under the 'Manual' option, there are input fields for 'Primary DNS Server' and 'Secondary DNS Server'. At the bottom of the form are 'Submit' and 'Cancel' buttons.

- IP address : Read-only. IP address from PPPoE service.
- Username ID : PPPoE username ID. Usually get from ISP.
- Password : PPPoE certified password. Usually get from ISP.
- DNS Server
 - Automatically: Get DNS IP automatically.
 - Manually : Set DNS IP manually.
 - Primary DNS : Input primary DNS server IP address here.
 - Secondary DNS Server : Input secondary DNS server IP address here.

2.1.5.3. DDNS

This allow device to have DDNS domain name. Encoder will notify a domain name server to change mapping IP in real time (ad-hoc), the active DNS configuration of its configured hostnames, addresses or other information.

The screenshot shows the web interface of the DVS-8501D 1-Ch Digital Video Decoder. The title bar reads "CTC union IP Surveillance" and "DVS-8501D 1-Ch Digital Video Decoder". On the left is a navigation menu with categories: Setting, Basic, System, Video&Audio, Play List, Video&Audio Info, Network, Network Inform, PPPoE, DDNS, UPnP, SNMP, HTTPS, IP Notification, Advance, and Account. The "DDNS" option under the "Network" category is selected. The main content area shows the DDNS configuration settings. At the top, there is a checkbox for "DDNS" with "On" selected and "Off" as an alternative. Below this are several input fields: "Server Name" (a pull-down menu showing "http://members.dhs.org"), "User ID", "Password", "Re-type Password", and "Host Name". There is also a "Refresh type" section with a "1 hour" pull-down menu for "Interval" and a "Refresh by IP" checkbox (currently unchecked). A "Refresh now" button is present. At the bottom of the configuration area are "Submit" and "Cancel" buttons.

- Server name : Select a DDNS server from Pull-down menu.
- User ID : Input DDNS ID from DDNS server.
- Password : DDNS authentication password.
- Host name: Hostname which registered on DDNS server.
- Note: Before using this function, please register an account from DDNS service provider.

2. 1. 5. 4. UPnP

UPnP helps user to find this machine easily. It will open service ports on local LAN UPnP router. Make others from Internet easily to access this device.

The screenshot shows the web interface of the CTC IP Surveillance DVS-8501D 1-Ch Digital Video Decoder. The interface has a sidebar menu on the left with the following items: English (dropdown), Setting, Basic, System, Video&Audio, Play List, Video&Audio Info, Network, Network Inform, PPPoE, DDNS, UPnP, SNMP, HTTPS, IP Notification, Advance, and Account. The main content area is titled 'UPnP' and shows a status 'UPnP On' with a green indicator. Below this, there is a checkbox 'Turn On UPnP Port Forwarding' which is checked. Underneath, there are three rows of port settings: 'HTTP Port' with a radio button for '80' and a text input field containing '0' (range 1024 ~ 65535); 'SSL Port' with a radio button for '443' and a text input field containing '0' (range 1024 ~ 65535); and 'Stream Port' with a radio button for '2121' and a text input field containing '0' (range 1024 ~ 65535). At the bottom of the settings area are 'Submit' and 'Cancel' buttons.

- HTTP port : HTTP connected port. Use default 80 or set manually (range 1024~65535)
- SSL port : Https security connection port setting. Use default 443 or set manually. (range 1024~65535)
- H.264 port : Set video stream port (range 1024~65535)
- H.264 SSL port : Input security connection port (range 1024~65535)

2. 1. 5. 5. SNMP

Simple Network Management Protocol (SNMP) is a widely used protocol for monitoring the health and welfare of network equipment.

SNMP_TRAP

The screenshot shows the web interface for the CTC IP Surveillance DVS-8501D 1-Ch Digital Video Decoder. The left sidebar contains a menu with the following items: English (dropdown), Setting, Basic, System, Video&Audio, Play List, Video&Audio Info, Network, Network Inform, PPPoE, DDNS, UPnP, SNMP (selected), Trap Setup (highlighted), Manager Setup, HTTPS, IP Notification, Advance, and Account. The main content area is titled 'DVS-8501D 1-Ch Digital Video Decoder' and contains the following settings:

- ☐ TRAP Information ☒ On ☐ Off
- Receiver IP and Community string table:

	Receiver IP	Community string
1		
2		
3		
4		
5		
6		
7		
8		

At the bottom of the form are 'Submit' and 'Cancel' buttons.

- Trap Information: Turn on or off SNMP service.
- Receiver IP : SNMP information receiver IP.
- Community string : Input SNMP server string to communicate with SNMP server.

SNMP_MANAGER

CTC Union IP Surveillance DVS-8501D 1-Ch Digital Video Decoder

English

Setting

Basic

System

Video&Audio

Play List

Video&Audio Info

Network

Network Inform

PPPoE

DDNS

UPnP

SNMP

Trap Setup

Manager Setup

HTTPS

IP Notification

Advance

Account

Manager Information ☒ On ☐ Off

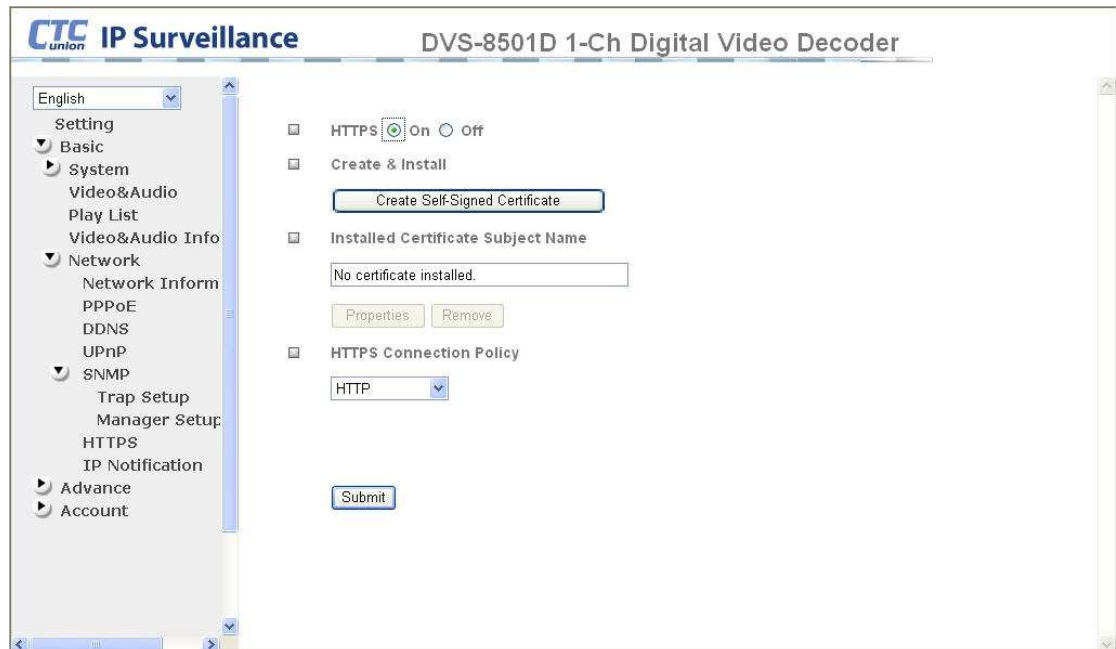
	Manager IP	Community string	Access
1			
2			
3			
4			
5			
6			
7			
8			

Submit Cancel

- Manager IP : Input SNMP manager IP.
- Community string : Input SNMP server string to communicate with SNMP server.
- Access : Let user “read” or “read and write” on device.

2. 1. 5. 6. HTTPS

Https is a URI scheme used to indicate a secure HTTP connection. It is syntactically identical to the http:// scheme normally used for accessing resources using HTTP. Select “on” to start to setup.



- Create & install : Click “create self-signed certificate” to create a cer
- Installed Certificate Subject Name: show or remove certificate.
- HTTPS connection policy: Three policies can be choosing. (HTTP, HTTPS, HTTP&HTTPS)

2. 1. 5. 7. IP Notification

Notify user by E-mail, while device is using new IP. Select “on” to turn on.

- Notify Type: Select which condition to send notification.
- SMTP Server name: Input SMTP server name or IP address here.
- SMTP server port: Use default SMTP port or user-defined (range 1024~65535)
- Authentication: Select authentication type according to your SMTP server.
- Receiver mail address: There are five receivers acceptable.
- Sender mail address: Input sender E-mail address here.
- Subject: Mail subject
- Message: Mail text

2.2. Advance

2.2.1. PTZ keyboard

The screenshot shows the 'PTZ Keyboard' configuration page in the CTC IP Surveillance software. The interface includes a left-hand navigation menu with options like Setting, Basic, Advance, PTZ Keyboard, SMTP, SMS, Alarm Input, Disconnection Ala, Alarm Output, System Log, VGA, and Account. The main area displays the following settings:

- PTZ Keyboard:** A checkbox is checked, and the status is set to 'On' (radio button selected).
- Baud Rate:** A dropdown menu is set to '9600' bps.
- Protocol:** A dropdown menu is set to 'Pelco-P'.
- PTZ ID:** A text input field contains '0', with a range of '(1~255)' indicated.
- PTZ Port:** Two radio buttons are present; '2000' is selected, and the range '(1024~65535)' is shown.

At the bottom of the settings area, there are 'Submit' and 'Cancel' buttons.

If turn on, below setting will be shown

- Baud Rate: Select baud rate according to the camera. Please refer to the guide of camera.
- Protocol : There are two kinds of protocol. Pelco-D and Pelco-P
- PTZ ID: Input camera ID. Range from 1 to 255.
- PTZ Port: Setup PTZ connection port.

2.2.2. SMTP

By setup SMTP server, let device send event to specific E-mail address.

The screenshot shows the web interface of the DVS-8501D 1-Ch Digital Video Decoder. The title bar includes the CTE union logo and the text 'IP Surveillance' and 'DVS-8501D 1-Ch Digital Video Decoder'. On the left is a navigation menu with options: English (language), Setting, Basic, Advance, PTZ Keyboard, SMTP, SMS, Alarm Input, Disconnection Ala, Alarm Output, System Log, VGA, and Account. The main content area is titled 'SMTP' and contains the following configuration options:

- SMTP**: A checkbox with 'On' selected and 'Off' as an alternative.
- SMTP Server**: A text input field.
- SMTP Server Port**: Radio buttons for 25(SMTP), 465(SSL), and 587(TLS), followed by a text input field containing '25' and a range '(1024-65535)'.
- SMTP Authentication**: Radio buttons for 'On' and 'Off', with 'Off' selected.
- Receiver 1 Mail Address** through **Receiver 5 Mail Address**: Five separate text input fields.
- Sender Mail Address**: A text input field.
- Subject**: A text input field.
- Message(no more than 127 characters)**: A larger text input area.

- SMTP : Turn on or off this feature.
- SMTP Server : Input SMTP server IP address
- SMTP port : Use default SMTP port or user-defined (range 1024~65535)
- Authentication: Select authentication type according to your SMTP server.
- Receiver mail address: There are five receivers acceptable.
- Sender mail address: 5 receivers can be set.
- Subject: Mail subject
- Message: Mail text

2.2.3. SMS

Send message to mobile device.

The screenshot displays the web interface for the DVS-8501D 1-Ch Digital Video Decoder. The left sidebar shows a navigation menu with the following items: Setting, Basic, Advance, PTZ Keyboard, SMTP, SMS (highlighted), Alarm Input, Disconnection Ala, Alarm Output, System Log, VGA, and Account. The main content area is titled 'DVS-8501D 1-Ch Digital Video Decoder' and contains the following configuration fields:

- SMS Switch:** A checkbox followed by radio buttons for 'On' (selected) and 'Off'.
- Service Provider:** A dropdown menu currently showing 'D5 Media'.
- User Name:** A text input field.
- Password:** A text input field.
- Mobile Phone Number1:** A text input field with a hint '("+country code" + "phone number")'.
- Mobile Phone Number2:** A text input field.
- Mobile Phone Number3:** A text input field.
- Mobile Phone Number4:** A text input field.
- Mobile Phone Number5:** A text input field.

At the bottom of the configuration area, there are two buttons: 'Submit' and 'Cancel'.

- SMS switch : Turn on or off this feature.
- Service provider : Select message service provider.
- Username : Input username on SMS server.
- Password : Input SMS server password.
- Mobile phone Number : Input receiver phone number from 1 to 5.

2.2.4. Alarm Input.



- If turn on, please set trigger condition. “High” or “Low” potential.

2.3. Disconnection Alarm

In this page, user can set alarm for video loss and network broken.

2.3.1. Network



- Select if alarm out while network fail. Select checkbox on “Alarm Output”

2.3.2. Video

CTC IP Surveillance DVS-8501D 1-Ch Digital Video Decoder

English

Setting

Basic

Advance

PTZ Keyboard

SMTP

SMS

Alarm Input

Disconnection Ala

Network

Video

Alarm Output

System Log

VGA

Account

☒ Alarm Video Disconnection ☒ On ☐ Off

SMTP

☐ Receiver1

☐ Receiver2

☐ Receiver3

☐ Receiver4

☐ Receiver5

SMS

☐ Receiver1

☐ Receiver2

☐ Receiver3

☐ Receiver4

☐ Receiver5

☐ Alarm Output

Submit Cancel

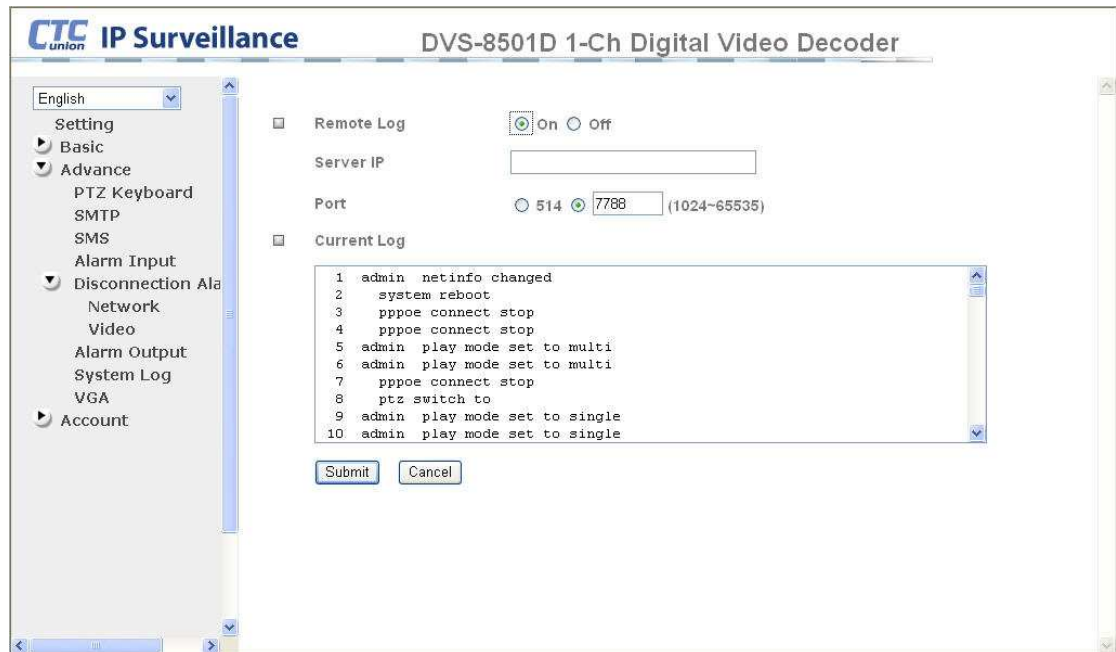
- While video disconnect user can set five E-mail receivers and SMS receivers to receive the notice. Also on alarm output. Choose the checkbox in the front of list.

2.4. Alarm Output



- Alarm Output: Turn on or off this function.
- Output Level: Select high potential or low potential(Electronic)
- Alarm Duration: Input alarm duration. Unit is second.

2.5. System Log

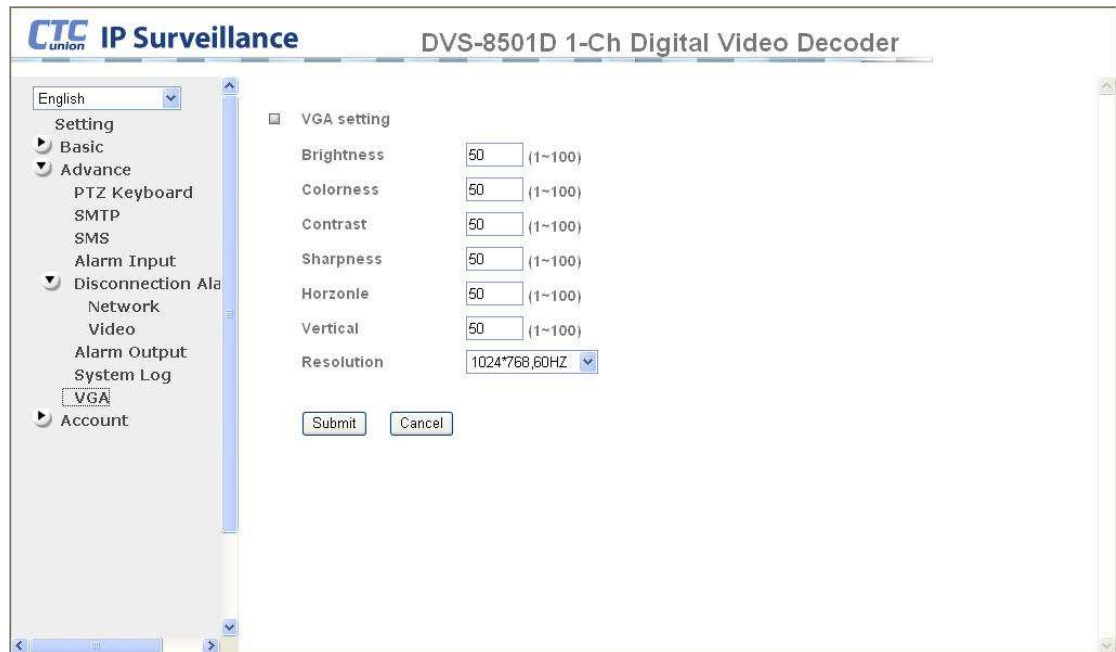


- Remote Log : Send log to remote log server.
- Server IP : Input IP of remote log server
- Port : Remote Log Server port. (Range from 1024 ~ 65535)

Current Log : Show Decoder current log. It will overwrite old log while log spool is full.

2.6. VGA

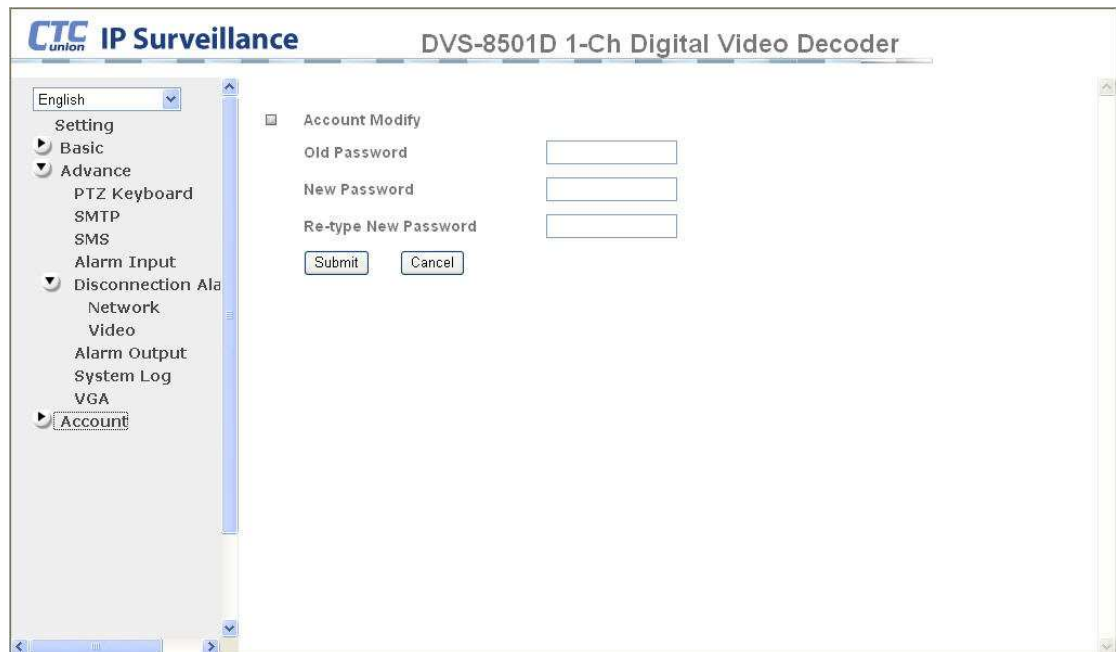
There is lots of parameter for VGA output setting.



- Brightness : Range from 1 to100.
- Colorness : Range from 1 to100
- Contrast : Range from 1 to100
- Sharpness : Range from 1 to100
- Horzonle : Range from 1 to100
- Vertical : Range from 1 to100
- Resolution : Three kinds of resolution, 800*600 60HZ, 1024*768 60HZ, 1280*1024 60HZ

2.7. Account

The default user name and password are all “admin”.



The screenshot displays the CTC IP Surveillance web interface for the DVS-8501D 1-Ch Digital Video Decoder. On the left is a navigation menu with a language dropdown set to 'English'. The menu items include Setting, Basic, Advance, PTZ Keyboard, SMTP, SMS, Alarm Input, Disconnection Ala, Network, Video, Alarm Output, System Log, VGA, and Account (which is highlighted). The main content area is titled 'Account Modify' and contains three input fields: 'Old Password', 'New Password', and 'Re-type New Password'. Below these fields are 'Submit' and 'Cancel' buttons.

- Old password : Input old administrator's password here. Only when this input is correct, new password could be accepted.
- New password : Input your new password.
- Re-type New Password: Re-type new password here.